

**HIGH VOLTAGE INTERFACE MODULE**ABSTRACT OF THE DISCLOSURE

The present invention provides a voltage conditioning  
5 interface module to condition an electrical signal locally. This  
module receives the unsafe electrical signal at an input port.  
This input port is electrically coupled to an external sampling  
point on an electrical circuit or system under test. A  
conditioning circuit having both a voltage reducing circuit and a  
10 voltage limiting circuit provides a reduced voltage. The voltage  
limiting circuit is in parallel with the output terminals that  
output the reduced voltage. This arrangement ensures that when a  
circuit element within the voltage reducing circuit fails, an  
unsafe condition does not exist across these terminals.

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